VHD

VHD-J1300D2
HD Color Box Camera
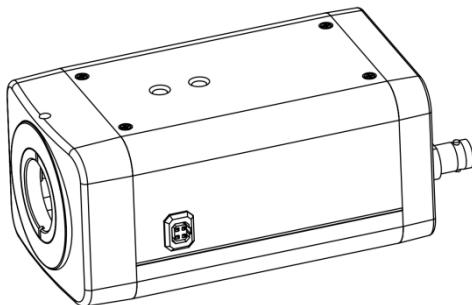
User Manual

Version 2.0

（English）

ValueHD Corporation

Contents

1 Notes

●**Electric Safety**

Installation and operation must accord With electric safety standard.

●**Caution to transport**

Avoid stress, vibration and soakage in transport, storage and installation.

●**Polarity of power supply**

The power supply of the product is +12V, the max electrical current is 2A .Polarity of the power supply plug drawing as follows.

●**Careful of installation**

Do not grasp the camera head when carrying the camera. Don't turn camera head by hand. Doing so may result in mechanical damage.

Never power on before installation is not completed.

●**Don't dismantle the camera**

We are not responsible for any unauthorized modification or dismantl- eing.

⚠**CAUTION!**

The specific frequency of electromagnetic field may affect the image of the camera!

2 Main Features

●Highest resolution 1920 x1080, output Full HD 1080p real-time image.

●Advanced coding technology, time delay within 200 ms.

●Support HD-SDI interface, the effective transmission distanceup to 200 meters.

●High SNR of CMOS sensor, sensitivity high, low-light good.

●Support 2D and 3D noise reduction.

●ICR infrared filter plate automatic switch, achieve monitoring day and night.

●Support PoE power supply

●Supports dual stream.

●Support automatic aperture, automatic electronic shutter, adaptdifferent monitoring environment.

●Support SDK.

3Standard Accessories

When opened the package, please check and confirm that all attachments shall be provided:

HD color gun type camera   x1

The user manual   x1

Certificate/warranty card   x1

4 Interface description

●**Cameraappearance**
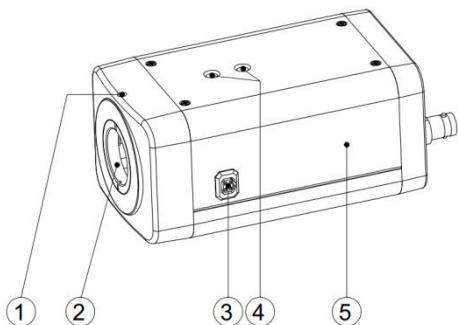
1. Lens focal adjustment after fixed screw holes

2. Lens mounting position (only for C / CS lens *)

3. Aperture control interface (only applicable DC automatic aperture)

4. The installation location hole

5. Fuselage

👉 Operating tips

Both sides threaded hole is consistent with the positioning hole size, installation can be used instead of each other.

⚠️Notice

Use C camera lens, you need to use special adapter ring.

●**The back of the interface specifications**
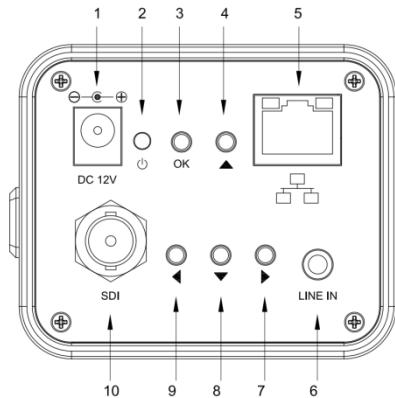
1. power interface

Connect external adapter,12V power supply.

2. Power lamp

3. **OK key**

4. Up select key

5. Network interface

Network interface for 10/100 m adaptive Ethernet interface, through the interface be connected with various internet Settings, such as hubs, routers, switches etc.

6. Audio input interface

7. Rightkey

8. Down key

9. Left key

10. SDI interface

👉 Operating tips

Press "OK" button and then to electricity and keep holding down the "OK" button 8 seconds, the camera will restore factory Settings.

5 OSD Menu Operation

●**Key Description**

The camera USES five buttons, respectively, to determine key [OK], select key 【▲▼】 up and down, left and right sides choose key " 【◀▶】 ; Under normal image press "OK" key, the screen displays the main menu, press 【▲▼】, from top to bottom cycle options menu item and press 【◀▶】 select menu options, use a scroll arrow or highlight the selected item, press menu button "OK" to highlight the menu item; Each menu page has a "Return" option, to Return to the superior menu or exit the menu.

●**MENU**

Directly press "OK" button to enter the main menu.

```
                    MENU
        ▶ Exposure

           Color

           Image

           Noise Reduction

           Setting

           Information

           Restore Factory Settings

           Exit
```

☞ **Operating tips**

Use the select key up and down 【▲▼】 Choose a menu item,press 【OK】 to enter submenu.

choose[Exit]press 【OK】 to exit menu.

●**EXPOSURE**

```
                EXPOSURE
        ▶ Mode             Full Auto

           ExpCompMod        Off

           Backlight         Off

           DRC Strength      4

           Anti Flicker      50Hz

           Lens              Manual

           Return
```

☞ **Operating tips**

Mode:Set the camera exposure mode, Optional items:Full Auto,Bright,Shutter Priority.

Shutter:Set the Shutter values, only when the Mode for the Shutter Priority Mode effective, Optional items: 1/10000s,1/6000s, 1/4000s,1/3000s,1/2000s,1/1500s,1/1000s,1/725s,1/500s,1/350s,1/250s,1/200s,1/125s,1/100s, 1/90s,1/60s,1/30s.

Bright:Set the brightness values, only when the effective Mode for Bright Mode, Optional items: 0 ~ 17.

ExpCompMode:Set the exposure compensation mode, Optional items:On,Off.

ExpComp:Set the exposure compensation value, only when ExpCompMode item to On effective, Optional items: -7 ~ 7.

Backlight:Set the backlight compensation, Optional items: On,Off.

DRC Strength:Set up digital wide dynamic strength, can set up different levels of wide dynamic effect, Optional items: 0 ~ 8.

Anti Flicker:Set the flashing function, Optional items: 50Hz,60Hz,Off.

Lens:Setlens mode, Optional items:Manual,DC.

Return:get back

●**COLOR**

```
                    COLOR

        ▶WB Mode          Auto

         Saturation       140%

         Hue              7

         AWB Sens         Low

         Style            Fujifilm(301)

         Return
```

👉 **Operating tips**

WB Mode:Set the camera white balance mode, Optional

items:Auto,3000K(Indoor),4000K,5000K(Outdoor),6500K-1,6500K-2,6500K-3,One Push WB(ok),Manual.

R Gain:Adjust the camera white balance mode of red gain, are effective only when the white balance mode to Manual, Optional items: 0 ~ 255.

B Gain:Adjust the camera white balance mode of blue gain, are effective only when the white balance mode to Manual, Optional items: 0 ~ 255.

Saturation:Color saturation adjustment, Optional items: 60% ~ 200%.

Hue:Chroma adjustment, Optional items: 0 ~ 14.

AWB Sens: The white balance sensitivity,Optional items:Low,Middle,High.

Style: Optional items:Ricom Fujifilm(301),Fujifilm(300),Fujifilm(500),HE45.

Return:get back.

●**IMAGE**

```
              IMAGE
    ▶ Luminance        6
      Contrast         7
      Sharpness        1
      Flip-H           Off
      Flip-V           Off
      LDC              Off
      Return
```

☞ **Operating tips**

Luminance:Brightness adjustment, Optional items: 0~14.

Contrast:Contrast adjustment, Optional items: 0~14.

Sharpness:Sharpness adjustment, Optional items:Auto,0~15.

Flip-H:Image flipped horizontally. Optional items:On,Off.

Flip-V:Image Flip Vertical. Optional items:On,Off.

LDC:Lens distortion correction,Optional items:1~10,Off.

Return:get back.

●**NOISE REDUCTION**

```
         NOISE REDUCTION
    ▶ 2D NR            3
      3D NR            3
      Return
```

☞ **Operating tips**

2D NR:2D noise reduction, Optional items:1 ~ 5,Close,Auto.

3D NR:3D noise reduction, Optional items:1 ~ 8,Close.

Return:get back.

●**SETTING**

```
              SETTING
    ▶ Language        English
      Protocol        VISCA
      Visca Address   1
      Baudrate        9600
      Video Format    1080P30
      EPTZ            Off
      Return
```

☞ **Operating tips**

Language:Language Settings, Optional items:English,Chinese.

Protocol (Invalid in this model) :Communication protocol Settings, Optional items:VISCA,PELCO-D,PELCO-P.

Visca Address (Invalid in this model) :Address of the Visca Settings, Optional items:0 ~ 7.

P-D Address (Invalid in this model) :P-D address settings, valid in PELCO-D mode,Optional items:0~254.

P-P Address (Invalid in this model) :P-P address settings, valid in PELCO-P model,Optional items:0~31.

Baudrate (Invalid in this model) :Camera baud rate Settings, Optional items:38400,19200,9600,4800,2400.

Video Format:Camera system Settings, Optionalitems:1080P30,1080P25,1080I60, 1080I50,720P60,720P50.

EPTZ:e-PTZ,Optional items:On,Off.

Zoom Limit:Optional items:1.5x, 2x,3x, 4x,8x.

Return:get back.

●**INFROMATION**

```
INFORMATION
Version      1.53D_H
Data         2015-07-02
IP           192.168.100.99
Gateway      192.168.100.1
Netmask      255.255.255.0
►    Return
```

●**RESTORE FACTORY SETTINGS**

```
RESTORE FACTORY SETTINGS
► Yes
  No
  Return
```

☞ **Operating tips**

Yes:verify,press 【OK】 to restore factory Settings.

No:cancel,press 【OK】 to back to menu.

Return:get back.

6 Serial port command description

●**Serial port control**

Camera on the electric initialization complete, available command (VISCA) with RS485 and RS232 serial port for

communication. The camera provides the following commands to control menu:

function	command packet	Notes
UP	8x 01 06 01 08 08 03 01 FF	Equivalent to the back four direction keys.
DOWN	8x 01 06 01 08 08 03 02 FF	
LEFT	8x 01 06 01 08 08 01 03 FF	
RIGHT	8x 01 06 01 08 08 02 03 FF	
OK	8x 01 04 0B 02 FF 或 8x 01 04 0B 03 FF	Equivalent to the back 【OK】 key.

x:Camera address.

7 Network Control

1.View from Web browser (better in IE)

●To view from web browser, firstly need to check camera IP address.Connect camera to PC with ethernet cable, use upgrade software to search for IP address(If you need the upgrade software,please contract the manufacturer)

●Please enter the IP address, username, password to web browser you have got via the above methods, then enter network control/viewing.

2.Change IP address,2 methods as below:

Method 1: On web control page, find "Network"--->Change IP---->Click "Apply" ----> Restart camera
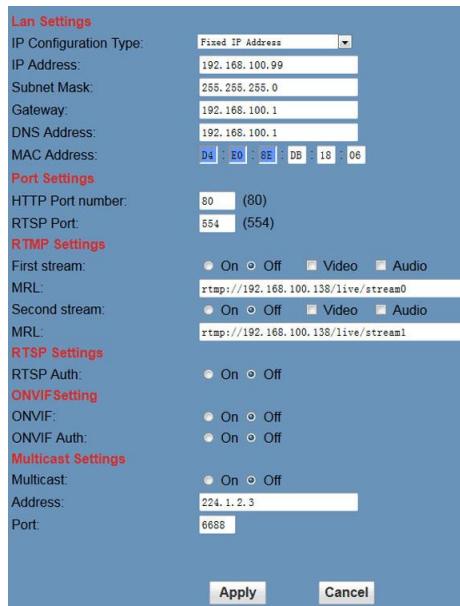
Method 2: Open "upgrade_En.exe", change IP and click "Set"
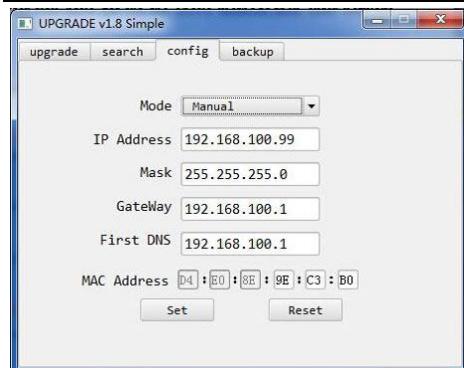
3.Once IP changed, need to restart the camera. 2 methods to restart as below:

   Method 1: Turn off and turn on manually to restart camera

   Method 2: On web page, find "System" and click "Apply" (when under remote controlling environment, better use this method)

👉 **Operating tips**

   Default IP address: 192.168.100.99

8 Maintenanceand troubleshooting

●**Maintenance of the camera**

   If the camera is not used for a long time, after use, please disconnect the power switch, at the same time the ac power adapter and ac socket to disconnect.

   Clear the dust on the camera housing, please use soft cloth or cotton paper.

   Clean the camera lens, please use dry soft cloth to wipe, such as dirt serious when, please use neutral detergent wipe gently. Don't use strong or with corrosive cleaner, so as to avoid the lens scratches, influence the image effect;

●**Beyond the camera work intensity of illumination**

   Camera may be more than camera work intensity of illumination, the image cannot achieve the best effect.

●**The camera should avoid using at the following specific situation**

   Camera should avoid shooting especially bright objects, such as sunshine, lamplight, etc.

   The camera don't work in lighting conditions unstable environment, otherwise the image will happen.

   Don't can launch a large power of the facilities around the use of radio waves, such as television or radio transmitters, etc.

9 Faultphenomenon and processing

9.1 Images

●Display shows no image

1,Check whether the camera power supply is connected and the voltage is normal, whether

the power light shine.

2,Check whether video platform, TV cable connection is normal

3,Check for manual lens aperture and open the aperture.

●Sometimes there is no image

1,Check whether video platform, TV cable connection is normal.

2,check whether the camera installation safety, if there is a strong shock.

●Image blurring

1,Check whether the installation.

2,Check whether the lens focusing accurately.

●When modify IP address in an incorrect way cause the wrong IP address or forget web passwords, press OK button 2s to restore the default value (Default IP: 192.168.100.99 Default username: admin   Default password: admin),restart pages times will have image.

9.2 Control

Serial port can't control

1,The camera control parameters is set up correctly.

2,Check whether control line connection is good.

10 Specification

Model	VHD-J1300D2
Name	HD Color Box IP-Camera
Camera	
Video System	1080i/60,1080i/50,1080p/30,1080p/

|	
	25,720p/60,720p/50
Sensor	1/2.7", CMOS, Effective Pixels: 2.07M
Scanning Mode	Progressive
Lens Mount	C/CS type
Auto Iris	DC Driver
Minimal Illumination	0.05 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto,3000k(Indoor),4000k,5000k(Outdoor),6500k-1,6500k-2,6500k-3,One Push(OK),Manual
Day-night mode	ICR infrared filter plate
Digital Noise Reduction	2D,3D digital noise reduction
Backlight Compensation	Support
Ceiling Installation	Support
IPC Video Features	
Video Coding standard	H.264
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080,1280x720,1024x576
Sub Stream Resolution	720x576,720x480,320x240
Bit Rate	128Kbps ~ 8Mbps
Bit Rate Type	Variable rate, fixed rate
Frame rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio	AAC

Compression	
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.
Input/Output Interface	
HD Output	1xHD-SDI:BNC Type, 800mVp-p, 75Ω, Conforming to SMPTE 292M
Network Interface	1xRJ45:10M/100M adaptive Ethernet ports
Audio Interface	1-ch: 3.5mm Audio Interface, Line In
Power Connector	JEITA（DC IN 12V）
Reset Button	Support
General specification	
Input Voltage	DC 12V
Current Consumption	0.5A（Max）
Operating Temperature	-10℃ ~ 40℃
Storage Temperature	-40℃ ~ 60℃
Power Consumption	6W（Max）
Size	127.5mm x 72.0mm x 60.0mm
Weight	0.5Kg
MTBF	6000h
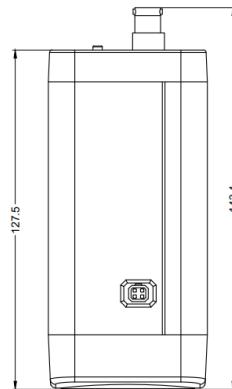
left view
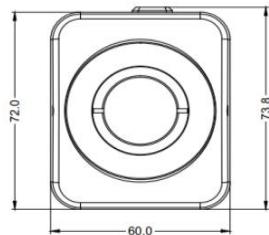
front view
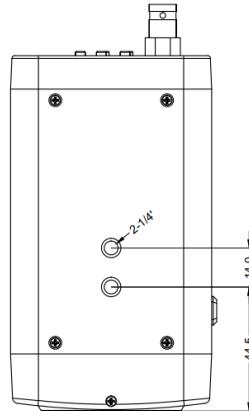
top view

11 Size

12 Copyright

ValueHD Corporation

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